

eMPower™ **ME**

STUDENT TEST BOOKLET

Mathematics

Grade 6



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Practice Test

Directions

Read each question and choose the best answer.

103432A Multiple Choice C Common

1. At a farm, $\frac{3}{8}$ of the cows have spots. There are 72 cows with spots. What is the total number of cows at the farm?
- A 27
 - B 99
 - C 192
 - D 216

104533A Multiple Choice D Common

2. The cost of membership in a health club is given by this equation, where n is the number of months of membership and C is the total cost in dollars.

$$C = 40n + 25$$

Which situation is **best** described by the equation?

- A The membership costs \$25 per month, less a \$40 discount.
- B The membership costs \$40 per month, less a \$25 discount.
- C The membership costs \$25 per month, plus a fee of \$40.
- D The membership costs \$40 per month, plus a fee of \$25.

104590A Multiple Choice C Common

3. A recipe for banana bread makes 2 loaves. The recipe requires 3 cups of flour. How many cups of flour are required to make 8 loaves of the banana bread?
- A 5
 - B 6
 - C 12
 - D 24

133559A Constructed Response Common

4. Quadrilateral $MATH$ is a rectangle with vertex M located at $(-3, 5)$ and vertex T located at $(4, -2)$. Side MA is parallel to the x -axis.
- What are the coordinates of vertices A and H ? Show your work or explain your reasoning. Suppose quadrilateral $MATH$ is one face of a cube.
 - What is the total surface area of the cube in square units? Show your work or explain your reasoning.

189645A Cluster Common 189646A Passage Common

Use the information below to answer questions 5 and 6.

Consider this problem.

Samira went jogging on Saturday. She ran a total of 8.5 miles in 1.75 hours. Samira burned a total of 1,050 calories while jogging. Assume that she burned the same number of calories each hour while jogging.

Lucas also went jogging. He ran a total of 10 miles in 2.25 hours.

At what rate, in calories per hour, did Samira burn calories while jogging?

189647A Multiple Choice C Common

5. Which values from the given information are needed to answer the problem?
- All three values are needed.
 - Only 1.75 and 8.5 are needed.
 - Only 1.75 and 1050 are needed.
 - Only 8.5 and 1050 are needed.

189648A Multiple Choice C Common

6. Which question **cannot** be answered with the given information?
- What was the average rate, in miles per hour, at which Samira jogged?
 - What was the average rate, in miles per hour, at which Lucas jogged?
 - How many more calories per hour did Samira burn than Lucas?
 - Which person, on average, jogged more miles per hour?